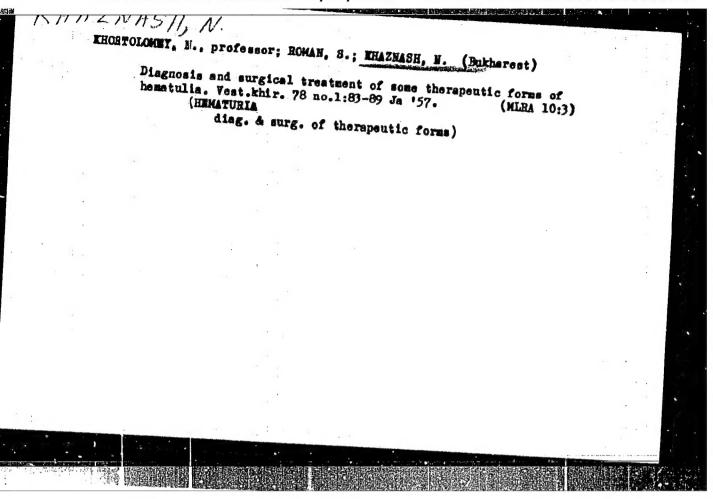


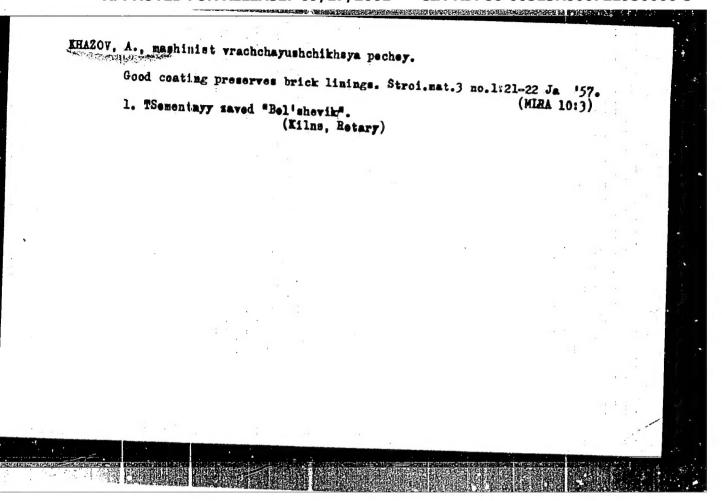
GORBANETS, V.K.; KHAZMAFEROV, A.I.

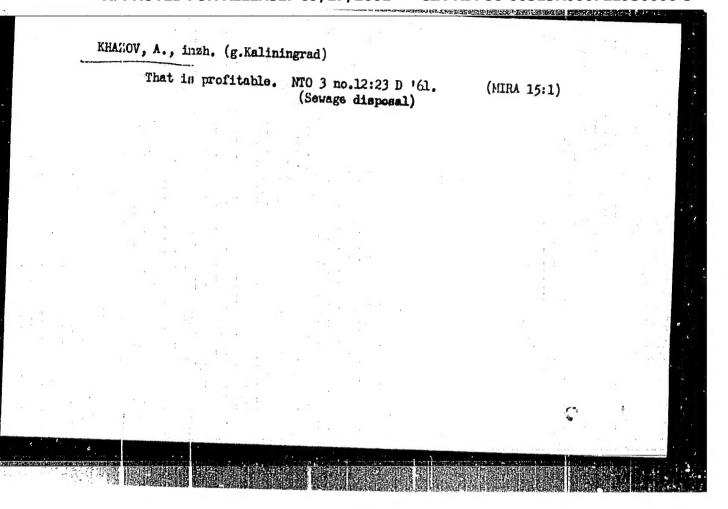
Experimental investigations of the flooding of unrecovered oil from drowned strata with a solvent. Nefteprom. delo no.9:7-11 '64.

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'-skogo instituta.



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721930006-3"

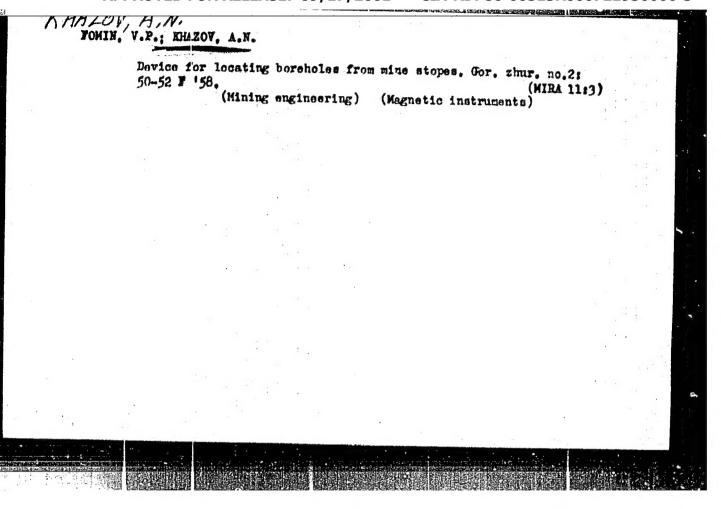


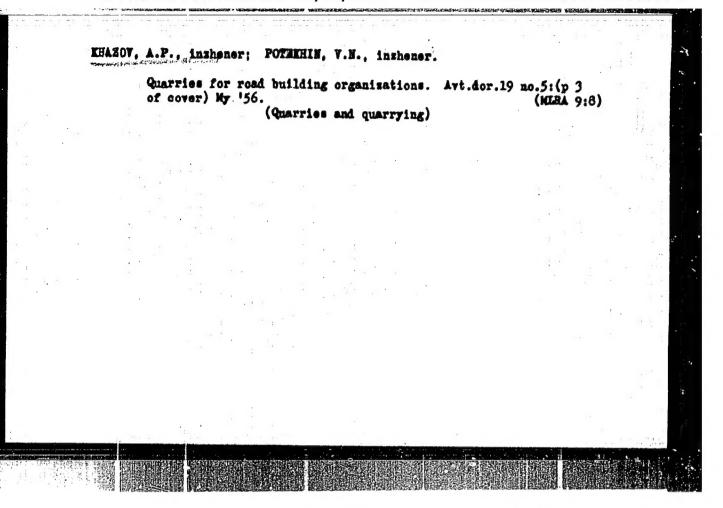


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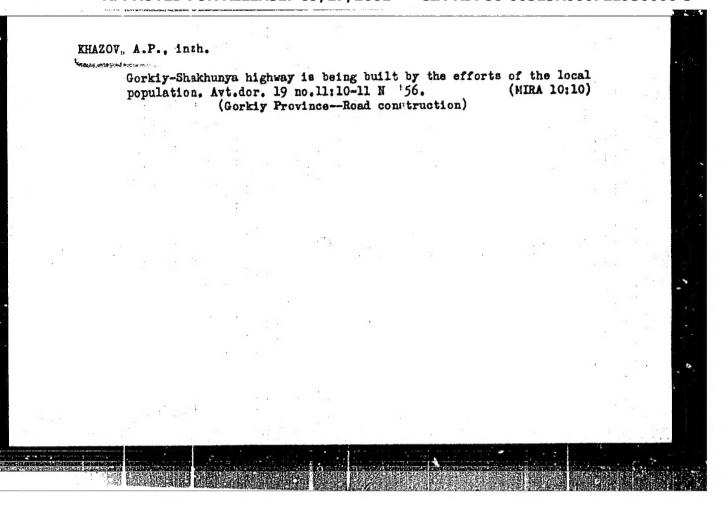
"APPROVED FOR RELEASE: 09/17/2001 CIA-F

CIA-RDP86-00513R000721930006-3

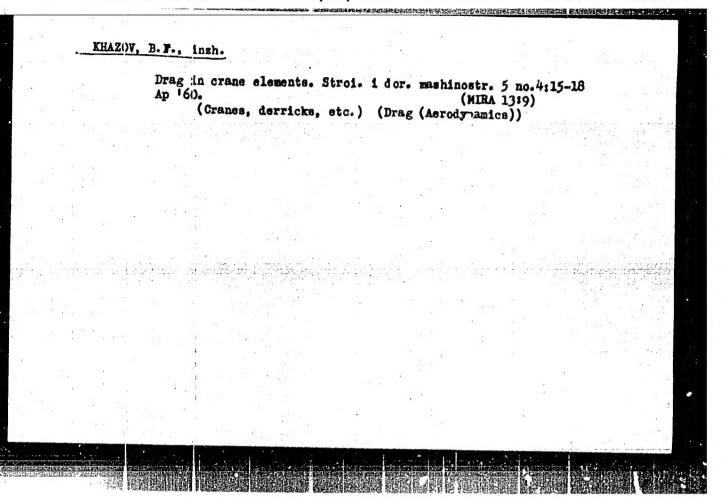




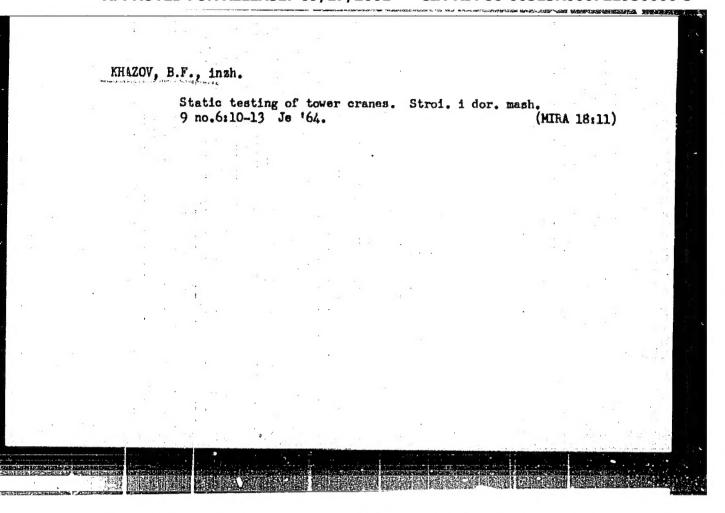
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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721930006-3"

HESHETHIKOV, N.S., dotsent; ORUZINOV, A.V., inzh.; KHAZOV, I.I., inzh.; PETHULEVICH, N.A., tekhnik; MERZHANOVA, O.M., red.izd-va; PARAKHIEA, N.L., tekhn.red.

[Album of drawings of parts with repair dimensions and additional parts (pieces) for the NAZ-200/501 motortrucks] Al'bom cherteshai detalei remontnykh rasmerov i dopolnitel'nykh detalei (nasadkov) avtomobilia NAZ-200/501. Noskva, Goslesbumizdat. (Tipovais tekhnologiia remonta lesozagotovitel'nykh mashin i mekhanizmov). Pt.2. (Detali shassi avtomobilia NAZ-200. 1960. 130 p. (NIRA 13:11)

1. Moscow. TSentral'nyy nauchno-isaledovatel'akiy institut mekhanisatsii i energetiki lesnoy promyshlennosti. 2. Nachal'nik laboratorii tipovoy takhnologii remonta mashin i organisatsii remontnykh predpriyatiy TSentral'nogo nauchno-isaledovatel'akogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Reshetnikov). (Motortrucks--Maintenance and repair)

RESHITNIKOV, N.S., dotsent; LEVANOVA, R.V., inzh.; RASHKOVSKAYA, A.N., inzh.; KHAZOV, I.I., inzh.; ANTONOVA, G.P., tekhnik; ANIKIYENKO, O.M., tekhnik; KORESHKOVA, V.I., tekhnik; KROTOVA, T.N., tekhnik; BIRYUKOVA, V.N., tekhnik; GOROKHOV, M.G., red.izd-va; PARAKHINA, N.L., tekhn.red.

[Album of working drawings of parts and units of MAZ-200 and MAZ-501 trucks] Al'bom rabochikh chertezhei detalei i uzlov avtomobilei MAZ-200 i MAZ-501. Moskva, Goslesbumizdat. Pts.2-3. 1960. 319 p. (MIRA 14:7)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut mekhanisatsii i energetiki lesnoy promyshlennosti. 2. Nachal'nik laboratorii tipovoy tekhnologii remonta mashin i organizatsii remontnykh predprilyatiy TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Reshetnikov). (Motortrucks--Equipment and supplies)

KHAZOV, L. D.	Sep 53 n in cetric cetric y curve r speci- sec. 266792 USSR ed ar-	56979-
	of Recording Variation of Recording Variation of Flashes," M.P. Vanyu sparatus for photoelecthic shows immediately fon of emission at any solution in time depends on time being is 10-8 sectime being is 10-8 section of the dev, who also presented dev, who also presented	8
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PD-3203

USSR/Physics - Electricity, Discharge phenomena

Card 1/1

Pub 153-12/28

Author

: Vanyukov, M. P., Isayenko V. I., and Khazov, L. D.

Title

: Investigation of light phenomena associated with the growth of the

channel of a spark discharge

Periodical

Zhur. Tekh. Fiz. 25, No 7, 1248-1256, 1955

Abstract

: Experimental investigation using an electron-optical converter, of the space-time expansion of the visible and infrared luminescence of a spark discharge channel, and of the propagation of the shock wave generated by the discharge revealed: (a) the shock wave separated from the plasma of the discharge; (b) a layer of heated, nonionized gas emitting infrared radiation in the form of arc lines was formed between the shock wave and the plasma; (c) the temperature of the discharge in inert gases increases with the atomic weight of the gas; (d) the average channel temperature was determined from measurements of the spectral density of energy brightness to be 57,000 K. Authors thanked Acad. A. A. Lebedev for assistance. Diagram, graphs, photos. Ten references:

Institution :

Submitted

November 24, 1954

s/120/62/000/005/019/036 E192/E382

Yermakov, B.A. and Khazov, L.D.

A vide-amplifier for exponential pulses with AUTHORS:

maximum signal/noise ratio Pribory i tekhnika eksperimenta, no. 5, 1962. TITLE: PERIODICAL:

The gain in the signal/noise ratio (voltage ratio) at the output of an optimum filer, as compared with the ratio of 117 - 120 a video-amplifier having a frequency characteristic $K(\omega)$, is expressed by (L.A. Vaynshteyn, V.D. Zubakov - Vydeleniye TEXT: signalov na fone sluchaynykh pomekh (Separation of signals from random noise), 1960, Izd-vo Sov. radio):

$$\frac{p}{p_1} = \left(\frac{E\sqrt{1(t)}}{\pi S^2 (t_{\text{Mano}})}\right)^{t_0} = \frac{\left(\int_0^\infty S^2(t) dt \int_0^\infty |K(\omega)|^2 d\omega\right)^{t_0}}{\pi S^2 (t_{\text{Mano}})},$$
(1)

Card 1./3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072193000

> S/120/62/000/005/019/036 E192/E382

where S(t) is the input signal, V(t) is the white noise at the input, E is the energy of the signal, the maximum amplitude of the signal at the output of the videoamplifer and 6/61 is the ratio of the signal/noise ratios at the output of the optimum filter and the video-amplifier. Eq. (1) is used to determine (%) for a three-stage videoamplifier with simple RC stages, the input signal being in the form $S(t) = b/\alpha - b(e^{-c})$. The parameters α and & determine the shape, duration and energy of the pulse. the form $S(t) = b/\alpha - b(e^{-t})$ The calculated results for various q/b as a function of To, where T = RC, are illustrated in Fig. 1. This shows that at a certain value of Z, 6/6 has a minimum; this depends on the shape and duration of the pulse to be amplified. The minimum is also observed in the case of a 10-stage coilcompensated amplifier. The theory was verified experimentally by employing exponential pulses with a = 0.156 and 1/8 = 0.6 us " which was produced by a special generator. Card 2/3

ORLOVSKIY, Ye.L.; KHALFIN, A.M.; KHAZOV, L.D.; ZAVARIN, G.D.;

KRUSSER, B.V.; SHCHELOVANOV, L.N.; TARANTSOV, A.V., red.;

KUKOLEVA, T.V., red.; SAUROV, B.V., tekhn. red.

[Theoretical principles of electrical transmission of images;
television and phototelegraphy] Teoreticheskie ognovy elektricheskie peredachi izobrazhenii; televidenie i fototelegrafiia.

[By] E.L.Orlovskii i dr. Pod obshchei red. A.V.Tarantsova.

Moskva, Sovetskoe radio. Vols. 1 - 2. 1962. (MINA 15:10)

(Tolovision) (Phototelegraphy)

SAMSON, A.M.; STEPANOV, E.T., ekademik; KHAZOV, L.D.

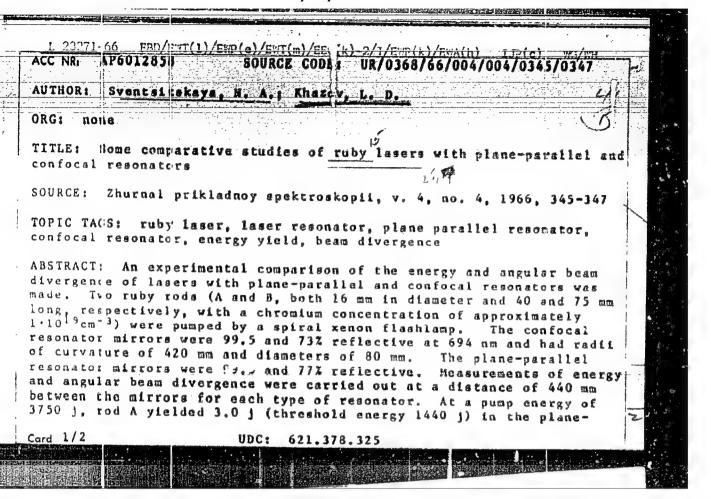
Generation threshold of an optical maser ad dependent on the properties of the resonator. Dokl. AN SSSR 148 no.21317-320 (MTRA 1612) Ja 163.

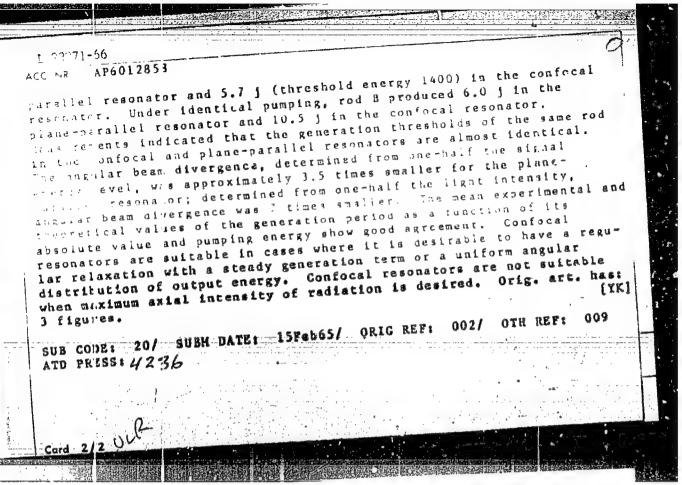
1. Institut fiziki AN Belorusekoy SSR. 2. AN Belorusekoy SSR (for Stepanov).

(Masers) (Electric resonators)

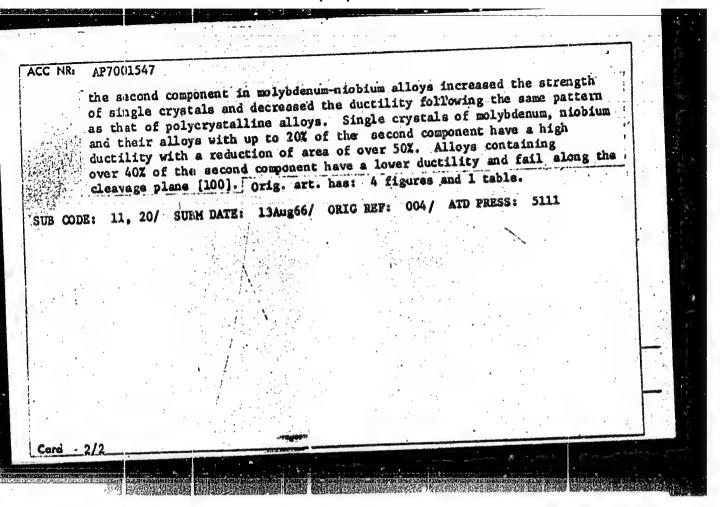
CCESSION NR: APSOCISO89	UR/0368/65/003/003/0230/0233 621:375:9-535:89
THOR: Nentsitskaya, N. A.; Khazov, L. D.44	71
lector OURCE: Zhurnal prikladnoy spektroskopil; v. 3, no.	
POPIC TAGS: ruby laser, laser beam, beam directions of the distance I, between the is shown to result in: 1) a generation which is 15 a shown to result in: 1) a generation which is 15 and the distance I, between the shown the result in: 1) a generation which is 15 and the result in: 1) a generation which is 15 and 1	e external mirrors of a ruby laser imited to fewer modes, and 2) lly, the authors used a 20-j pulsed in figureter with opaque sides and in figureter with o

L 1776-66 ACCESSION IR: AP5025089 beams were produced, and 2) in present-day ruby crystals (which contain undesirable microinhom)geneities) the ruby beam can be confined to an angle of 1-2' only at the expense of a 40-fold decrease in output power (at L = 13 m). Orig. ert. has: [YK] 4 figures.					
ASSOCIATION: none SUBMITTED: 11Jan65 NO REF SOV: 001	encl: 00 other: 00 ^t	SUB CODE: EC			

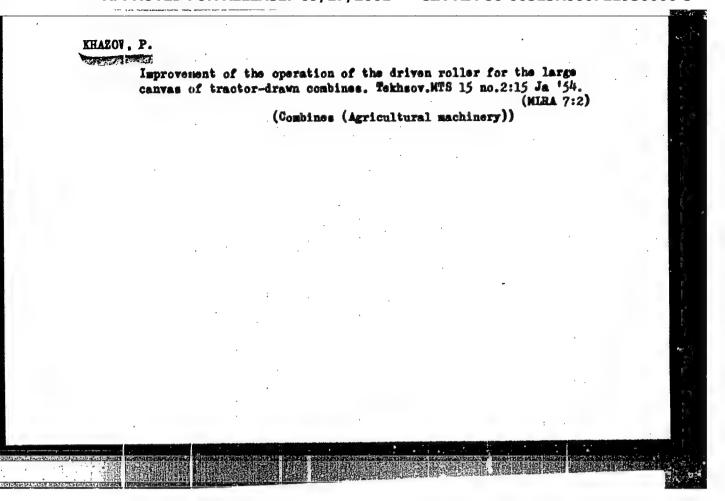




UR/0020/66/171/003/0577/0579 SOURCE CODE: ACC NR: AP7001547 AUTHOR: Savitskiy, Ye. M. (Corresponding member AN SSSR); Burkhanov, G. S.; Bokareva, N. N.; Khazov, N. P. ORG: Institute of Metallurgy im. A. A. Baykov, Academy of Sciences SSSR (Institut metallurgii Akademii nauk SSSR) TITLE: Investigation of the structure and properties of molybdenum-niobium alloy single crystals SOURCE: AN SSSR. Doklady, v. 171, no. 3, 1966, 577-579 TOPIC TAGS: molybdenum niobium alloy, molybdenum niobium alloy property, molybdenum niobium alloy crystal, alloy single crystal, molybdenum alloy, niobium alloy ABSTRACT: Sir.gle crystals of molybdenum-niobium alloys containing 0-100% niobium were grown from alloy bars obtained by vacuum melting components which contained 0.001-0.002% 02, 0.0001-0.0005% H2, and 0.01% C. All the crystals grown had [100] or [110] orientation. It was found that the electrophysical and menhanical properties of alloy single crystals strongly depended on the orientation. The highest ductility was found in crystals with [110] orientation. Differences in strength, reduction of area, and elongation between the crystals with [100] and [110] orientations were up to 50%. No anisotropy of hardness was observed. The content of interstitial impurities significantly affected the elongation and reduction of area. Increasing UDC: 669.017:53



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721930006-3"



KHAZOY P.

27-2-19/19

AUTHOR:

None Given

TITLE:

Information (Informatsiya)

clubs and sports sections.

Professional no-Tekhnicheskoye Obrazovaniye, 1958, # 2,

PERIODICAL: Pr

(153) pp 32-33 (USSR)

ABSTRACT:

B.Kopilev, the Deputy Director for Cultural Education
Work writes of the 25th anniversary of the Stepanetsk
Agricultural Mechanization School in Cherkasskaya Oblast'
(Stepanetskow uchilishche mekhanizatsii sel'skogo khozyaystva,
(Stepanetskow uchilishche mekhanizatsii sel'skogo kho

P.Khazov, Senior Inspector of the Aktyubinskaya Oblast, Labor Reserves Administration writes of the activities of the Aktyubinsk Oblast, Labor Reserves School for Agriculthe Aktyubinsk Oblast, Labor Reserves School for Agricultural Mechanization (Uchilishche mekhanizatsii sel'skogo tural Mechanization (Uchilishche mekhanizatsii sel'skogo tural Aktyubinskogo oblastnogo upravleniya trudovykh

rezervov)

V. Yatsenko and A. Sapozhnikov tell how the students of the Trade School No 39 in Sverdlovsk (Remeslennoye uchilishthe No 39 g. Sverdlovska) spend their free time at different the No 39 g. Sverdlovska

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000/12/1930006

N.Latyntseva reports on the Agricultural Exhibition in Chimkent in which the school institutions of the Labor Reserves in Southern-Kazakhstanskaya Oblast' (Uchebnyye zavedeniya trudovykh reservov Yuzhno-Kazakhstanskoy oblasti)

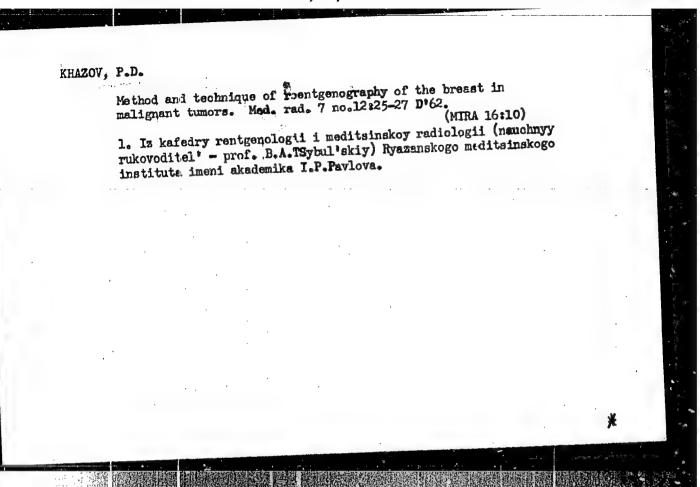
General information is given on the publication of a new symposium, "With One's Own Hands" ("Svoimi rukami"). Published by Trudreservizdat in 1957, it contains descriptions of models and designs in the fields of photography, electricity, radio engineering, model airplane flying and motor acquatics.

There are 4 photographs.

AVAILABLE:

Library of Congress

Card 2/2



KHAZOV, P.D.

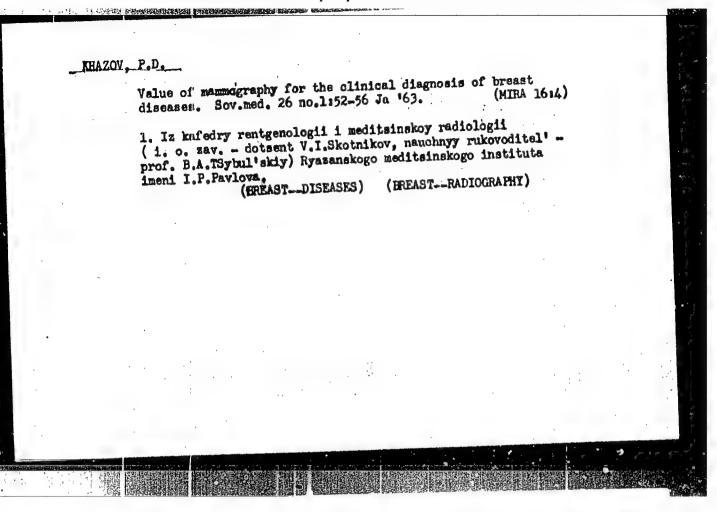
X-ray study of diseases of the breast. Nauch. trudy Riaz. med. inst.
15:148-153 '62.

1. Kafedra rentgenologii i meditsinskoy radiologii (ispolnyayusheriy obyazannosti zaveduyushchego kafedroy - dotsent W.I.Skotnikov, nauchnyy rukovoditel' - prof. B.A.Tsybul'skiy) Ryazanskogo meditsinskogo instituta imeni Pavlova.

KHAZOV, P.D.

Diagnostic significance of calcification of the breast. Vest. rent. 1 rad. 37 no.5:73-74 S=0 *62. (MIRA 17:12)

l. 'z kafedry rentgenologii i meditainakoy radiologii (ispolnyayushchiy obyazannosti zaveduyushchego dotsent V.I. Skotnikov, nauchnyy rukovoditel' - prof. B.A. TSybul'skiy) Ryazanakogo meditainakogo inatituta imeni I.P. Pavloya.



SMIRNOVA, A.A., kand. med. nauk; KHAZOV, P.D.

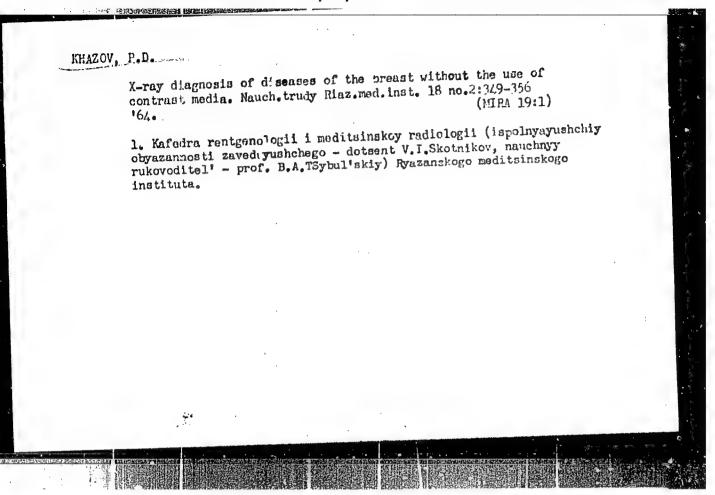
Neurodystrophic calcifications and essifications. Vestn. rent. i rad. 38 no.3:71-72 My-Je 163. (MIRA 17:7)

l. Iz kafedry rentgenologii i meditsinakoy radiologi (ispolnyayushchiy obyazunnosti zav. - dotsent V.I. Skounakov) Ryazunskogo meditsinakogo instituta imeni akad. I.P. Favlova na baza Oblastnoy klinicheskoy bolinitsy imeni N.A. Semashko (glavnyy vrach - zasluzhennyy vrach RSFSB B.N. Shirekov).

KHAZOV, P.D., aspirant (Ryazan', Chernobayevskaya ul., d.17, komnata 70)

Noncontrast roemtgenography in the diagnosis of breast cancer. Vest. khir. 90 no.5:52-59 My'63 (MIRA 17:5)

1. Iz kafedry rentgenologii i meditsinskoy radiologii (ispolnyayu hchiy obyazannosti zaveduyushchego - dotsent V.I.Skotnikov, nauchnyy rukovoditel' - prof. B.A. TSybul'skiy) Ryazanskogo meditsinskogo instituta imeni akademika Pavlova (rektor dotsent A.A. Nikulin) na baze oblastnoy klinicheskoy bol'nisty
imeni N.A. Semashko) glavnyy vrach - zasluzhennyy vrach RSFSR
B.N. Shirokov).



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CIA-RDP86-00513R000721930006-3

KhAZOU, V.A.

137-1958-2-2723

Translacion from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 75 (USSR)

Khazov, V.A., Ignat'yev, Yu.A., Monakhov, I.I. AUTHORS:

A Semiautomatic Process of Pressing Ceramet Pieces in Single-TITLE:

section and Multisection Dies (Poluavtomaticheskiy protsess pressovaniya metallokeramicheskikh detaley v odnognezdnykh i

mnogognezdnykh press-formakh)

PERIODICAL: V sb.; Poroshkovaya metallurgiya. Nr 4, Moscow, 1956,

pp 63-68

Experience with automatic and semiautomatic dies for pressing ABSTRACT:

pieces from powdered metals (bushings et al.) at a number of machine-building plants [the S'IZ (Stalingrad Tractor Plant), IGPZ (State Locomotive Plant No. 1), the Tashsel' mash (Tashkent Agricultural Machinery Plant), et al.] has revealed that the use of these dies increases the efficiency of the presses and affords cost advantages. Using semiautomatic multisection dies on

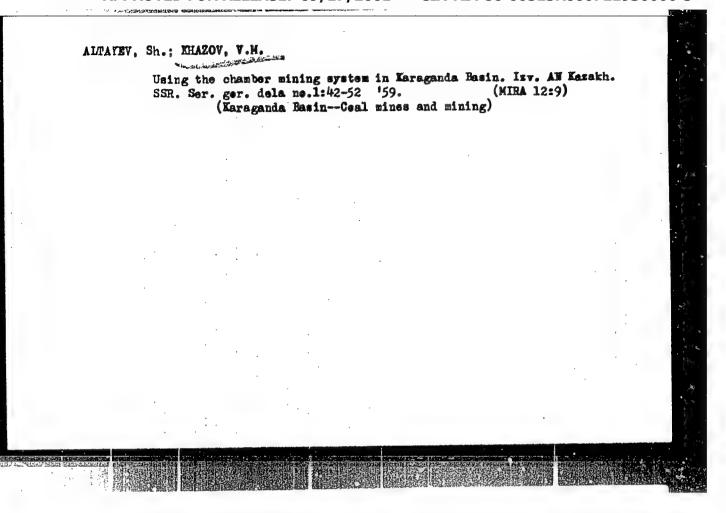
existing universal presses was no less economical than using the

available automatic presses.

I.B.

Card 1/1

1. Coramics-Pressing-Processes



/8.7200 18(7),25(

67863 SOV/125-60-1-6/18

AUTHOR:

Khazov, V.Ya

TITLE:

Some Principles Governing the Electrical Processes

of Butt Flash-Welding 14

PERIODICAL:

Avtomaticheskaya svarka, 1960, Nr 1, pp 46-54 (USSR)

ABSTRACT:

On the basis of general conclusions drawn from investigations of butt flash-welding, conducted at the laboratories of VNIIESO and the zavod "Elektrik" ("Elektrik"
Plant), the electric processes in the welding circuit
are analyzed and certain principles established. The
main parameters in the process of butt flash-welding
are the current, the resistance and voltages of the
welding circuit. This article is a detailed analysis
of the nature of changes in these parameters in the
welding circuit. Figure 1 shows the circuit diagram
simulating a machine for butt welding! The author concludes that: 1) the principles governing the electrical processes of butt flash-welding are sufficient for

Card 1/3

APPROVED FOR RELEASE: 09/17/2001

67863 CI\$\r\D**E\$6600513R000721930006**

Some Principles Governing the Electrical Processes of Butt Flash-Welding

an accurate analysis of the fusion processes. 2) During stable welding the full electric power of the machine is 3 to 5 times less than the full power used during upsetting, and the equivalent resistance value of the butts being welded is 3 to 4 times higher than the full electric resistance of the welding machine during a short circuit. In conditions of stable welding the effective value of the voltage at the butts exceeds the effective value of the idle-running voltage. 3) The equivalent resistance value of the butts does not directly depend on the specific electrical resistance of the parts being welded and the size of their cross section area. It is determined by all factors including the thermaphysical properties of the welded alloys, the magnitude of secondary voltage in the welding transformer, the inductance of the welding machine, and the welding rate. There are 1 circuit diagram, 1 oscillogram, 1 graph, 1 table, and 5 references, of which 4 are Soviet and 1 English.

Card 2/3

67863 SOV/125-60-1-6/18

Some Principles Governing the Electrical Processes of Butt Flash-Welding

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya (All-Union Scientific-Research Institute of Electric Welding Equipment)

SUBMITTED:

March 14, 1959

Card 3/3

ZLOEIN, G.I., insh.; KHAZOV, V.Ya., insh.

Butt welding of small diameter tool blanks. Swar. proisv. no.10:30-31 0 '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya.

(Tool steel---Welding)

KHAZOV, V. Ya., Cand Tech Sci -- "Study of Joint welding by fusing mon-ferrous metals." Mos, 1961. (State Com of the Council of Ministers on Automation and Mach Construction.

Central Sci Res Inst of Technol and Mach Construction.

"TsNIIT Mach." ONTI) (KL, 8-61, 250)

- 326 -

24780 8/125/61/000/008/008/014 DO53/D113

1.2400

AUTHORS:

Nekrasov, B.M., Khazov, V.Ya.; Alekseyev, B.D., and Fridlyand,

M.G. (Leningrad)

TITLE:

Welding and brazing of chromium bronze

PERIODICAL: Avtomaticheskaya svarka, no. 8, 1961, 70-75

TEXT: Several welding and brazing processes were investigated to find out the most suitable process for joining bp. X 0,5 (Br. Kh0.5) bronze, and also for joining this bronze with copper, particularly M1 (M1) copper. The Br. Kh0.5 bronze, containing 0.5 to 0.8% Cr, up to 0.003% Pb and 0.02 to 0.06% Fe, is used for busses in electrical equipment because of its high mechanical strength and a sufficiently good electrical conductivity (γ = 45 to 50 m/ohm · sq mm). Its tensile strength (σ_t) is 42 to 48 kg/sq mm; Brinell hardness (H_B) - 100 to 110 kg/sq mm; yield strength (σ_y) - 35 to 38 kg/sq mm; and the elongation (δ) is 12 to 17%. The H_B can be increased to 115 -130 kg/sq mm by cold-hardening. The investigation was carried out jointly by the VNIIESO and a machine building plant [Abstracter's note: the plant Card 1/3

24780 3/125/61/000/008/008/014 DO53/D113

Welding and brazing ...

is not identified]. The following processes were tested: (1) brazing and gas welding with an oxyacetylene flame; (2) are welding with a carbon electrode; (3) a-c and d-c argon-arc welding with a non-consumable electrode; (4) flash butt welding; and (5) friction welding (for purposes of comparison). The minimum requirements for weld joints were ot not less than 35 kg/sq mm and y not less than 45 m/ohm \cdot sq mm. These requirements were fulfilled by using (a) an oxyacetylene flame and a ΠC_p -45 (PSr-45) filler metal for brazing the bronze with copper and (b) using flash butt welding for bronze to bronze joints. The ultimate strength of the weld joints thus obtained attained 90 to 100% of the parent metal strength. The flash butt welding of busses made of Br. Kho.5 bronze was done on an MCJ =300 (MSL-300) welder designed by the zavod "Elektrik" ("Elektrik" Plant). This welder is fitted with a pneumatohydraulic drive, pneumatohydraulic clamps, and a 300-KVA transformer with a 380-V primary winding. The following optimum process parameters have been found for welding bronze busses, 60 x 6 mm in crosssectional area, on this welder: (1) secondary voltage of the welding transformer - 5.28 V; (2) power during fusion - 50 to 55 KVA; (3) power factor during fusion - 0.8; (4) power during upsetting - 250 KVA; (5) power factor

Card 2/3

24780 S/125/61/000/008/008/014 D053/D113

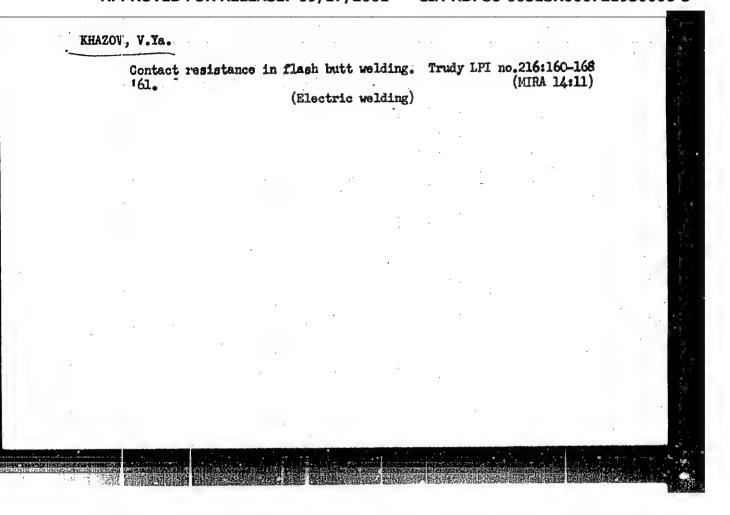
Welding and brazing ...

during upsetting - 0.35; (6) welding current during fusion - 9,500 to 10,500 A; (7) welding current during upsetting - 47,000 A; (8) upsetting force - 13,000 to 20,000 kg; (9) die-clamping pressure - 45,000 to 50,000 kg; (10) rate of fusion prior to upsetting - 14.4 mm/sec; (11) upsetting speed - 200 mm/sec; (12) fusion period - 5.5 sec; (13) duration of upsetting under current - 0.1 to 0.12 sec; (14) total setting length - 45 mm; (15) fused length - 20 mm; and (16) upset length - 10 mm. The ultimate tensile strength of the weld joints was 39 to 46 kg/sq mm, and the electrical conductivity 45 m/ohm · sq mm. There are 4 figures and 1 table.

ASSOCIATION: VNIIESO (Nekrasov, B.M. and Khazov, V.Ya.)

SUBMITTED: January 16, 1961

Card 3/3



KHAZOV, Yu. L.
HAYOTO TROUBLEAL EXPLITITE OF THE USSR ACADDO OF SOMESES, LINEARRAD.

"Investigation of Nuclear Isomerism in Hf^{180m}," Nuclear Physics, V. 6, (1958) pp. 561-574; by V.B.. Gvozdev, L.I. Rusinov, Yu. I. Filimonov, and Yul L. Khazov, (North-Holland Publishing Co., Amsterdam).

abst: The coefficient of internal conversion of the 57.6 keV transition in the L-shell of Hf was measured and found to be 9.33 0.10. The -transition is shown to be of the El type. A 501.2 keV -transition has been detected; measurements of the internal conversion coefficient yield 0.035 0.014. The 501.2 keV -transition is of the E3 type. The level with an excitation energy 1 142.9 keV was found to possess a spin 9 and negative parity. The experimental lifetimes for the 57.6 keV and 501.2 keV -transition exceed those predicted by the single particles model by respectively 10 and 10 times. This large discrepancy is due to the high forbiddenness of the

-Transitions with respect to the quantum number K.

Internal conversion coefficients have also been measured -transitions of 93.3 keV, 332.4 keV and 443.6 keV energy. The transitions were all found to be at the E2 type. The cross section for production of Hr in the (n,) respection has been determined and found to equal 0.18 0.07 barns.

Physica Jeal Inst., AS USSR Moscow.

	Trudy, t. II (Transctices of the fadius Institute, Academy of Sciences 1888, P.1. 9) Noscow, 11d-vo AS 2552, 1959. 787 p. Erreta sitp inserted.	matical Sciences; Ed. of Publishing		COTINGE: The book represents volue 9 of the interactions of the datastics interiors and contents are contents and contents are contents and contents are a manufactured or angle of the same are are angle or angle or angle or are seen to see the contents with particles of different parties are are are angle of the same are a manufactured or the contents are as a manufactured or the contents are all the contents are all the contents are all the concept of the contents are all the contents and contents are all the contents and contents are concepted with the theory of the contents are all the contents and contents are all the contents are all the contents and contents are all the contents are al	57	Shamore, 7.P. Fishion of Heavy Rullei (Ze,77) can to min Laterative Lang. Fortroper, A. Fut, 2 Lat. 2 Shitship, and 3.N. Solar year. Gross Section for 55 Firston of Leadin Spanish Pras. Section 7 Res. Section 7 Section 2 Sec	Study of Gazzas Ray Spectrum of Po-Se	Asserting Link, A.M. Protopopor, and B.M. Shirpsjer. Study of Cauma Rays Lincoppassing the Fission of 1935 by Tieres Learnons	Erangy Yu.F., K.A. Petrarak, and M.A. Sak. Cadmins Ratios for 1g107 and S.	"Sak, M.k.; Estribak, and Yu.F. Arhanov. Enalysks of he Search Tield of Stations Desety	Region That . Note Bate K.A. Februars and K.E. Ellings Protecting 9: Figuration for the finest Convention for the finest Convention for the formation of the finest Convention of the first Convention of Confedence Convention of	Thermal Fauthons in Water Will Partyonics K.L. Fetzzhal, and lud. Pluzany.	1	Raiks, Make, Gorgelinge, Vill. Matedyankin, Mich. Bateriak, and M.S. Ditramakaya. Jantarahiling Jahini T. Datlata for Ma o Los, An o Res Maff. o Du and T. Green. 150 Sources	Anthermony, E.S. Determining the Correstion For Coloriester Thorsal Insti-	Michaelshays, M.S., The Rade of Prysical and Charles, Primersos in Caltriania to Primersos. Schuller to Protection Charles and Michaelshay and Michaelshay Michaelshay and Michaelshay Mic	Minchely 18. Personal Malines in mater for the Chily of Angelan Stead Buttons Inc. 12 Minchely Buttons an Minchely Seattless.	Species (19. N.C., 4.1), Starter (1.) as 1 to 1 t	. Plantamekty, Allumnd Ym.E. Tetoria. Intensification of Particulityliers	dyanemology 9.00, Auto Pisanovakinya and Malil. Peterino. Auroverbanding: Simmer angiti ter fire for Amplitude Confies	Applyor to half, to A, teadling Alb. Flearwoolds end to b. Televio. Study of to conventiables intended for Sefettlanden for televior by	Marillon Marks A.M. Plannerskip, and Ya.D. Nonth. Scintillation Campa 14 common destructions and 2.8	E. J. C. J. Emmander Helde De College de Joseph College
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sov/56-36-2-52/63

21(8) AUTHORS: -

Gvozdev, V. S., Khazov, Yu. L.

TITLE:

The Production Cross Section of Te^{125m} According to a (n,γ) Reaction (Secheniye obrazovaniya Te^{125m} po reaktsii (n,γ))

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 2, pp 632-633 (USSR)

ABSTRACT:

The authors measured the formation cross section of the isomeric state of Te 125 of the spin 11/2, the (n,γ) reaction was used for this meacurement. The above-mentioned cross section was determined by comparing with the cross section of the reaction

Hf¹⁸⁰ (n,γ) Hf¹⁸¹ which was assumed to be equal to (10 ± 3) barn. The radiation sources for the measurements were prepared from the separated isotopes Te^{124} and Hr^{180} , they simultaneously were irradiated in a neutron flow. The spectrum of the electrons of the internal conversion of T^{125m} and Ta^{181} (which are produced in the β -decay of Hr^{181}) was investigated by means of a β -spectrometer. A diagram shows the K-lines of the internal-conversion electrons of the y-transitions of

Card 1/2

 Ta^{181} (133.02; 136.25; and 136.85 kev) and of Te^{125m} (109.1 kev).

APPROVED FOR RELEASE: 09/17/2001

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The Production Cross Section of Te 125m SOV/56-36-2-52/63

According to a (n, y) Reaction

The production cross section of Te 125m according to the reaction (n, y) can be calculated by determining the ratio of the intensities of the lines K = 109.1 and K = 133.02, it was equal to (40 ± 25) millibarn. The ratio of the formation cross sections of Te 125m (spin 11/2) and Te 25 (spin 1/2) amounted to 0.006. There are 1 figure and 2 references.

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Physico-Technical Institute of the Academy of Sciences, USSR)

SUBMITTED: November 6, 1958

Card 2/2

S/048/60/024/012/001/011 B019/B056

AUTHORS: Gvozdev, V. S., Rusinov, L. I. (Deceased), and Khazov, Yu.L.

TITLE: Study of the W182 Level Scheme

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 12, pp. 1444-1448

TEXT: The present paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which was held in Moscow from January 19 to January 27, 1960. For the study of highly excited W182 levels, the internal conversion coefficients of a number of γ -transitions were determined. The excited W182 levels were obtained from the β -decay of Ta182 (half-life 111 days), which had been obtained from the reaction Ta182 (n, γ)Ta 182. The measurements were made with a β -spectrometer with a TV2-focusing of electrons. In order to avoid an action of the Ta183 produced in the above-mentioned Ta decay (half-life, five days), the measurements were carried out 40 days after neutron bombardment. For

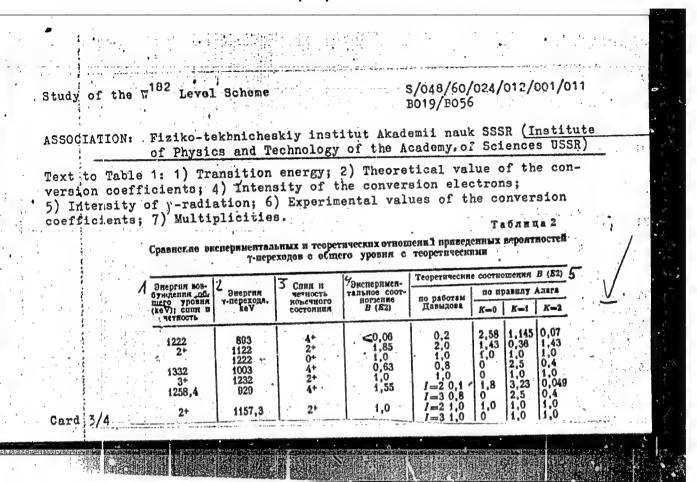
Card 1/4

Study of the W¹⁸² Level Scheme

S/048/60/024/012/001/011 B019/B056

energies of the internal conversion electrons of up to 100 kev, sources having a thickness of 0.5 mg.cm⁻² for energies of from 1000 to 1200 kev with 1.7 mg.cm⁻², and for 820-960 kev, such having a thickness of 13 mg.cm⁻² were used. A conversion line was found, which is close to an electron energy of 1088.8 kev. The authors conclude that an excitation energy of 1255 kev must be ascribed to the level, from which a p-transition with an energy of 1158.3 kev occurs. The internal conversion coefficients were obtained by comparing the intensities of the conversion electrons and the p-emission of the p-transitions considered with those of the conversion electrons and the p-radiation of the 1222-kev transition. The conversion coefficients and the multiplicities of the wasternastions are given in Table 1. Table 2 shows a comparison between the experimental and theoretical relations of the p-transition probabilities B(E2). D. A. Varshalovich is thanked for a discussion. There are 4 figures, 2 tables, and 10 references 6 Soviet, 3 US, and 1 Fanish.

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S/048/60/024/012/001/011 B019/B056

Text to Table 2: 1) Excitation energy of the joint level (kev); spin and parity; 2) Energy of the y-transition; 3) Spin and parity of the final state; 4) Experimental relation B(E2); 5) Theoretical values of B(E2) according to A. S. Davydor and Alaga.

Определение кооффициентов конверсии и мультинованностей испексацов в Wise

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Card 4/4

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721930006

8/056/60/039/006/008/063 B006/B056

AUTHORS:

Rusinov, L. I. (Deceased), Borovikov, A. V., Gvozdev, V. S., Porsev, G. D., Sakharov, S. L.;

TITLE:

Investigation of the Decay Scheme of Dy 166

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 6(12), pp. 1529-1533

TEXT: Contradictions between theory and experiments on the subject of Ho 166 gave rise to investigations of the spectrum of internal conversion electrons and of the spectrum of gamma rays arising with the β-decay of Dy (going over into Ho 166). A report is given here on these investigations, which have led to a determination of the spin characteristics of the Ho -nucleus level. Dy 166 (T_{1/2} = 80.2 hours) was obtained from Dy 164 by double neutron capture. The target enriched with Dy 164 to 86.5% was exposed to a neutron irradiation for 6 - 7 days, and 36 hours after the end of this

Investigation of the Decay Scheme of Dy 166

S/056/60/039/006/008/063 B006/B056

irradiation, the spectrum of the internal convarsion electrons was recorded. Then, the Dy 165 -content (T $_{1/2}$ = 2.4 hours) is negligible. The conversion electron spectrum of the Ho 166 -nucleus, formed in the β -decay of the Dy 166 is shown in Fig. 5. Besides the transitions with 28, 54.2, and 82.5 kev of the Ho 166 nucleus, this spectrum also shows the 81-kev transition of the Er 166 -nucleus, which is produced in the β -decay of Ho 166 . Conversion electrons, which correspond to transitions with energies of more than 82.5 kev in the Ho 166 -nucleus, were not discovered. Their intensity would have to be less than 0.5% of the intensity of the K-line of the transition with 82.5 kev. The relative conversion coefficients determined from coefficients given by L. A. Sliv and I. M. Band are mentioned. Also the spectra of the γ -radiation and the $\gamma\gamma$ -coincidences were investigated. It was found that between the gamma quanta with 28 and 54.2 kev coincidence exists, but not between the latter and the 82.5-kev quanta. From the conversion coefficient ratios the types of the transitions were determined:

Inventigation of the Decay Scheme of Dy 166

\$\056/60/039/006/008/063 B006/B056

the gamma transitions with 28 and 82.5 kev were found to be pure Mi transitions, the 54.2-kev transition a pure E2 transition. The intensities shown in Fig. 1 have an accuracy of up to 2-3%. It was further found that $(55\pm2)\%$ of all Dy 166 decays lead to the formation of Ho 166 in the excited. state with 82.5 kev, \sim 43% to Ho 166 in the ground state. Fig. 6 makes. a suggestion for schemes of the lower levels of the Ro 166-nucleus; the first variant is the most probable. The authors thank D. A. Varshalovich for discussions. There are 6 figures, 2 tables, and 6 references: 2 Soviet, 1 US, 1 Dutch, and 1 Danish.

-11:

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk

(Leningrad Institute of Physics and Technology of the

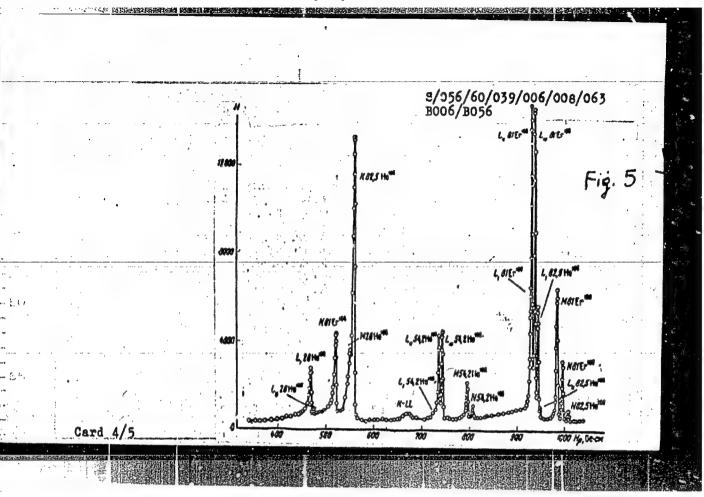
Academy of Sciences USSR)

SUBMITTED:

June 29, 1960

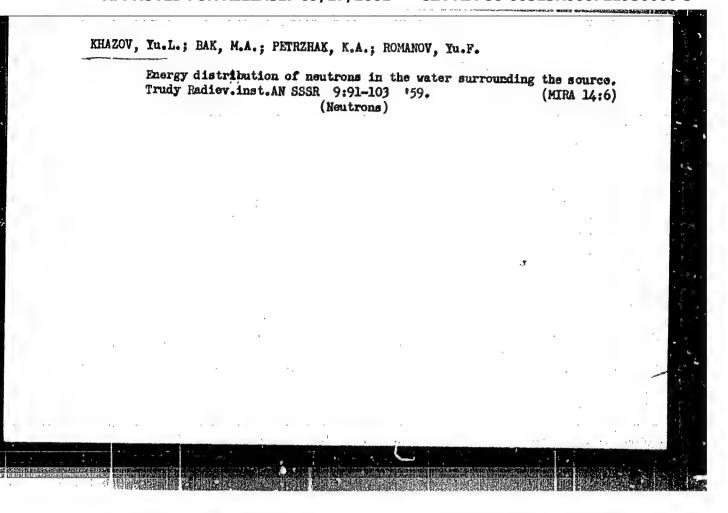
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Text to Table 1: 1) Relative conversion		Эксперинентальные	E1 52	E3	Mi	M2	, W3	Интенсивность пере» Хода	
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mental. 3) Calculated for the transition	28	$a_{L_{\rm I}}/a_{L_{\rm II}}$ 10.5 ± 0.3 1.45 0.01 0.014 10.7 14.4 13.0						0,23 ± 0,01;	
1) Intensity of the		•	$\alpha_{L_1} + \alpha_{L_{11}}$	•					
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,			$a_{L_{\parallel}}/a$						
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ard 5/5	81Er	7,6 ± 0,2	6,1 0,5	0,04	6,61	3,16	0,7	1.	
eta 2/2 and and and and and and a second		Province of the Control			٠	_		1,05 ± 0,01	



RUSINOV, L.I. [deceased]; APTEKAR*, R.L.; GVODEV, V.S.; SAKHAROV, S.L.; KHAZOV, Yu.L.

Level scheme of Eu¹⁵³. Zhur. eksp. i teor. fiz. 40 no.1:79-84 Ja '61. (HIRA 14:6)

1. Leningradskiy fiziko-tekhnicheskiy institut.
(Europium) (Samarium--Decay)

Complete utilization of resources. NTO no.8:10-11 Ag *59. (MIRA 12:11) 1. Uchennyy sekretar soveta pervichnoy organizate Nauchno-tekhnicheskogo obshchestva tavetnoy metallurgii zavoda im. Ordshonikidze, g. Kol'chugino, Vladimirekoy oblasti. (Kol'chugino (Vladimir Province)--Nonferrous metal industries)

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SOV/113-59-3-13/17 12(2)

Komarov, A.R.; Khazova, A.V.; Titov, I.V. AUTHORS:

The Modification of Cast Iron by Using Magnesium TITLE:

Under Pressure (Modifitsirovaniye chuguna magniyem

pod davleniyem)

Avtomobil'naya promyshlennost', 1959, Nr 3, PERIODICAL:

pp 40 - 43 (USSR)

The imperfection of methods for introducing magnesium ABSTRACT:

and other modifying additions to liquid cast iron

is one of the reasons why high-strength cast iron has found no wide-spread use. In the USSR, pure metallic magnesium, its alloys or magnesiumcontaining mixtures are used as modificators. The author reviews briefly the different methods used in the USSR. At the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant) the modification with pure magnesium was performed under a bell-shaped chamber

with a special device providing a sufficiently

deep penetration of the magnesium into the liquid Card 1/6

The Modification of Cast Iron by Using Magnesium Under Pressure

metal as shown by Figure 1. This method had the disadvantage that the magnesium consumption is up to 1% of the weight of cast iron and it does not reliably provide high-strength cast iron with globular graphite structure. At the Syzranskiy gidroturbinnyy zavod (Syzran Hydraulic Turbine Plant) a method was developed using a forehearth furnace as shown by Figure 2. The magnesium consumption amounts to only 0.4 - 0.6% of the cast iron weight, while the assimilation of the magnesium is up to 10 - 15% compared to 5 - 10% with the first method. However, the operation of the furnace is interrupted and the use of the forehearth capacity is limited to 50 - 60%. At a number of plants, devices for introducing magnesium were tested, whereby a rotat-

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The Modification of Cast Iron by Using Magnesium Under Pressure

ing crucible with a special chamber was used which was connected with the interior cavity by a special canal. The device (Figure 3), designed at the Gor'kiy Automobile Plant, may serve as an example for this type. Thereby, a magnesium assimilation of 20 - 25% was obtained. Recently, methods were developed which were based on increasing the evaporation temperature of magnesium by increasing the pressure on the metal surface in hermetic devices. Figures 5 and 6 show examples of such devices. The latter was developed by TsNIITMASh. Figure 7 shows a device designed by the Czech engineer Otahal. He established that the amount of magnesium required for modifying cast iron is considerably lower at a pressure of 5 - 5.5 atm. In this case, the amount of magnesium required is only 0.2% of the weight of the cast iron as shown by a graph (Figure 8). NIITAvtoprom investigated the cast iron modification by magnesium when the cast iron crankshafts of the automobile "Volga" were introduced, and de-

Card 3/6

The Modification of Cast Iron by Using Magnesium Under Pressure

veloped the laboratory device shown in Figure 9. It consists of an airtight chamber into which the crucible with the liquid cast iron is placed. The magnesium is pushed into the liquid cast iron by a bar from the cover of the chamber. The latter is filled with compressed air which was varied during the tests from 3 to 8 atm, while the metal temperature was 1420. For all tests, amounts of magnesium equal to 0.2% of the weight of the cast iron were used. According to the graph, Figure 10, the best results were obtained at a pressure of 5 - 6 atm, since then the air pressure was about equal to the pressure of saturated magnesium vapors whereby also a thorough mixing of the metals was obtained. Based on the experiments of NIITAvtoprom, two projects were developed. One, constructed by NIITAvtoprom itself, is shown by Figure 11. With this equipment, the modification of 500 kg cast iron lasts 1 - 1.5 minutes. The other version was developed by the Gor'kiy Automobile Plant and is

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The Modification of Cast Iron by Using Magnesium Under Pressure

shown by Figure 12. This equipment consists of a cylindrical chamber 1,500 mm in diameter and 3,000 mm long. The crucible containing 500 kg of liquid cast iron is placed on a small truck which is pulled by an electric winch into the interior of the chamber. The chamber entrance is closed by an airtight spherical door. Another opening is located at the top of the chamber, also closed by an airtight door, for introducing the container with the magnesium. A pneumatic cylinder is used for pushing the charge into the liquid metal. The chamber is filled with compressed air at a pressure of 6 atm, whereby 6 cum compressed air are required. The modification process lasts about 1.5 - 2 minutes and the entire operation 4 - 5 minutes. The liquid iron is transferred to the casting crucible, where 0.3% pulyerized 75%-ferrosilicon and 0.025% cryolith are added for reducing the sulfur content. By melting cast iron in an electric arc furnace with basic lining and by modification with magnesium, it is possible

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The Modification of Cast Iron by Using Magnesium Under Pressure

to obtain high-strength cast iron with a structure of globular graphite. The consumption of pure magnesium is thereby 0.06 - 0.08% of the weight of the liquid cast iron. When the sulfur content of cast iron is 0.003 - 0.005% and 0.002 - 0.003% after the modification, then it is adequate to have a magnesium content of 0.01 - 0.03% for obtaining cast iron with globular graphite. The modification equipment of the Gor'kiy Automobile Plant is used for the production of crankshafts of the "Volga" automobile and shows good results, thus it may be recommended for mass production of high-strength cast iron parts. There are 3 photographs, 7 diagrams, 2 graphs, 1 table and 5 Soviet references.

ASSOCIATION:

NIIT Avtoprom, Gor'kovskiy avtozavod, (Gor'kiy Auto-

mobile Plant), I NAUGHAE - ISSLEBOUNTEL SKIY INSTITUT TEKHNIKI

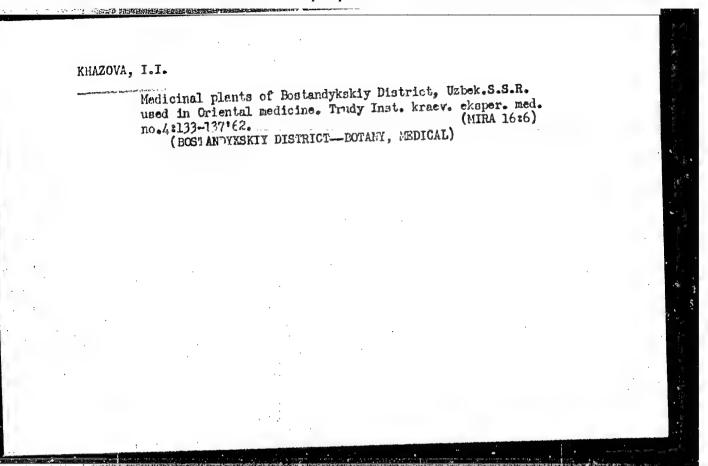
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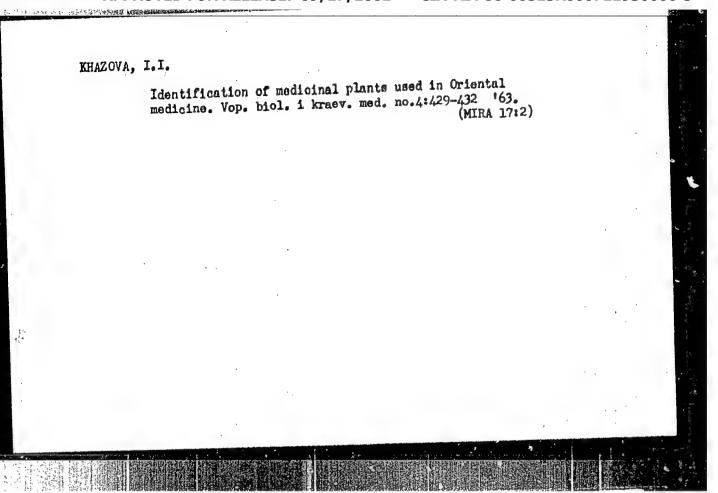
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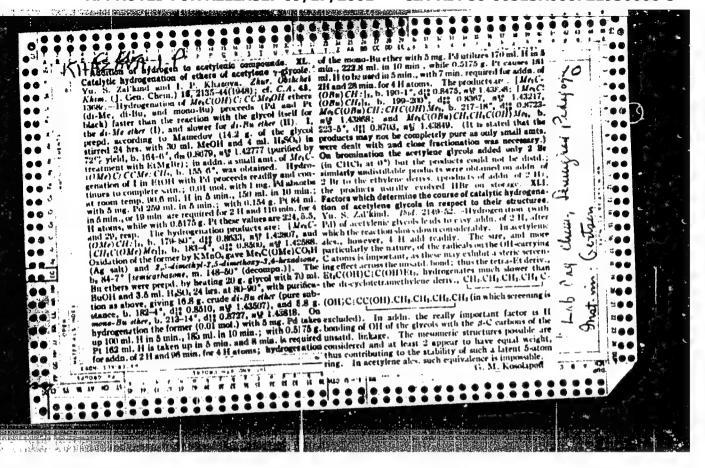
PETROVA, I.B., kand.tekhn.nauk; KHAZOVA, A.V., inzh.

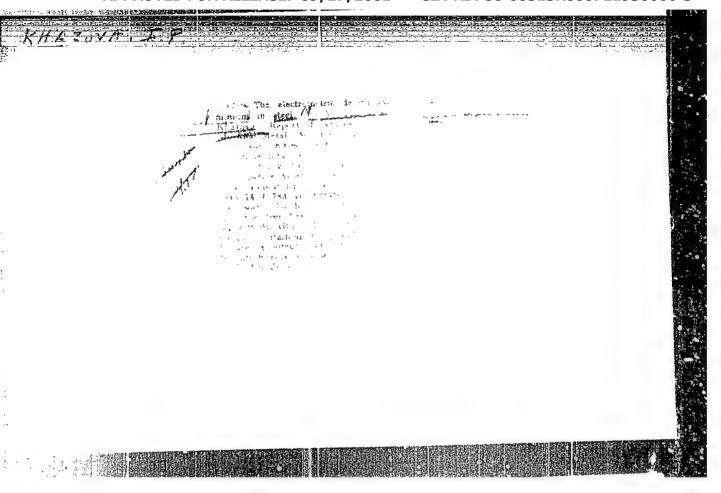
Production of cast iron with spheroidal graphite by modification at greater than atmospheric pressure. Izv.vys.ucheb.zav.; mashinostr., no.4:11-16 1601 (MIRA 14:4)

1. Moskovskiy avtomekhanicheskiy institut. (Cast iron—Metallurgy)









SOV/137-59-1-2172

Translation from. Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 285 (USSR)

Ryazanov, I. P., Khazova, I. P. AUTHORS:

Microcrystalloscopic Reaction for Detection of Silver With TITLE:

O-nitrophenolphosphenylic Acid (Mikrokristalloskopicheskaya

reaktsiya otkrytiya serebra o-nitrofenolfosfenilistoy kislotoy)

PERIODICAL: Sb. nauchn. tr. Magnitogorskiy gorno-metallurg. in-t, 1958, Nr 16, pp 141-145

ABSTRACT: The O-nitrophenylphosphenylic ["-phenol-" in title, "-phenyl-" in abstract, per Russian text; Trans. Note] acid C6H4(NO3)OPHOH (I) forms with Agt a white crystalline I-Ag precipitate; with Hg2+ and Pb2+ I forms amorphous white precipitates. Besides Hg2+ and Pb2+, the reaction of Ag with I is impeded by Sb and Bi. One drop of 0.5-M solution of I is mixed with one drop of AgNO3 solution (1.27 g of salt in 100 cc of water). Rectangular and square laminae of Ag-I salt precipitate immediately. They darken slightly in air and melt with decomposition at 203-2050C. The salt is soluble in HNO3, in

NH4OH, and in water (1.5 g/liter), but is insoluble in alcohol and benzol. The sensitivity of the reaction is 0.25y at a 1:80,000 Card 1/2

SOV/137-59-1-2172

Microcrystalloscopic Reaction for Detection of Silver (cont.)

dilution. 0.1 g of ore is dissolved with heating in several drops of concentrated HNO₃; the excess of acid is removed by evaporation. The cooled solution is filtered, and the Ag is detected in the filtrate. Bi³⁺, Sb³⁺, and Sb⁵⁺ are removed with ammonia. The reaction is used for detecting Ag in galenite and tetrahedrites, such as arsenofahlerz and antimonfahlerz.

F. I.

Card 2/2

CIA-RDP86-00513R000721930006-3" APPROVED FOR RELEASE: 09/17/2001

RYAZANOV, I.P.; KHAZOVA, I.P.

Arylphosphinic acids acids as a new group of reagents for analysis. Izv.vys.ucheb.zav.; khim.i khim.tekh 2 no.4: 490-492 '59. (MIRA 13:2)

1. Magnitogorskiy gorno-motallurgicheskiy institut. Kafedra obshchey i analitichoskoy khimii.
(Phosphinic acid) (Chemical tests and reagents)

KHAZOVA, I.P.

Photocolorimetric determination of zinc in ores with the aid of 3-hydroxy-1-o-nitrophemy1-3-phenyltriazene. Izv.vys.ucheb.mav.;khim. ikhim.tekh. 6 no.2:218-222 '63. (MIRA 16:9)

1. Magnitogorskiy gornometallurgicheskiy institut, kafedra obshchey i analiticheskoy khimii. (Zinc ores) (Triazene) (Photocolorimetry)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721930006-3

Guntavia, folication and Anna classical virological data on polication in land and soften and following vaccination (1940-1952). Vendy ion. Inst. epid. i mitwolfol. 26:9-27 (64, 1952).

S/153/60/003/003/018/036/XX B016/B058

AUTHORS:

Fioshin, M. Ya., Khazova, O. A.

TITLE:

Study of the Ancdic Process at the Electrolysis of Mixtures From Sulfuric Acid and Acetic Acid. I. Study of the Kinetics Dependence of the Ancdic Process on the Composition of the Mixtures From Sulfuric Acid and

Acetic Acid

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 3,

pp. 443 - 446

TEXT: The authors report on their study of the anodic reaction at the d.o. electrolysis of a mixture from anhydrous sulfuric acid and acetic acid (H₂SO₄ and CH₃COOH). They presumed the existence of solvents in these systems and studied their influence on the kinetics of the anodic process. The method of the curves of polarization was used therefore. The electrolytic cell represented an H-type vessel, in which the cathode

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s/153/60/003/003/018/036/XX Study of the Anodic Process at the B016/B058 Electrolysis of Mixtures From Sulfuric Acid and Acetic Acid. I. Study of the Kinetics Dependence of the Anodic Process on the Composition of the Mixtures From Sulfuric Acid and Acotic Acid

and anode space were separated by a cock. The enode consisted of care... fully polished platinum, its design corresponding to that by N. A. Izgaryshev and Ye. A. Yefimov (Ref. 9). A sulfate electrode Hg | Hg 2SO4, filled with saturated Na SO4 solution, served as reference electrode. The curves of polarization (Fig.1) determined by the author covered a concentration range of H2SO4 in the mixture from 20 to 100 mole% and were recorded for 13 compositions within this range. On the basis of these results the authors state in conclusion that the equation by Tafel is valid in the investigated system during the electrolysis for a wide concentration range at current densities between 2.22.10 and 2.22.10 a/cm2. The curve of the dependence of the coef. ficient b (in the equation by Tafel b = $\frac{d \psi_a}{d \log I_a}$, ψ_a being the anode

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APPROVED FOR RELEASE: 09/17/2001

S/153/60/003/004/015/040/XX B020/B054

AUTHORS:

Fioshin, M. Ya., Khazova, O. A., Ignat'yeva, L. A.

TITLE:

Study of the Anode Process in the Electrolysis of Mixtures of Sulfuric and Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of

Anode Gases

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 4,

pp. 637 - 641

TEXT: The authors attempted to study the composition of gases liberated from the anode in the electrolysis of an anhydrous mixture of sulfuric and acetic acid, and their dependence on the composition of the solution the gases liberated from the anode were analyzed by a BTM-2 (VTI-2) gas analyzer. The analytical method was based on a successive and selective absorption of the principal components of the gas mixture by various absorberts, and on a combustion of hot gases with subsequent analysis of the combustion products. The authors determined CO₂ by 33% KOH, the

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Study of the Anode Process in the S/153/60/003/004/015/040/XX Electrolysis of Mixtures of Sulfuric and B020/B054 Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases

unsaturated hydrocarbons by a KBr solution saturated with bromine vapors, O₂ by a basic pyrogallol solution, CO by a Cu₂O suspension in concentrated H₂SO₄ absorbed with β-naphthol, H₂ by combustion over CuO at 270-280°C, and the saturated hydrocarbons by combustion over CuO at 850-950°C. Sulfuric and acetic acid must be highly pure, and not contain any water. Electrolysis was conducted in a cylindrical glass vessel with a ground in glass stopper, with fused-in electrodes, and a tube to draw off the gas. The anode used was a smooth platinum net with a surface of 63.5 cm². The anode spece was separated from the cathode space by a ceramic diaphragm. The current source used was a storage battery with a voltage of 80 v. Electrolysis was conducted in an anhydrous H₂SO₄ - CH₃COOH mixture in an interval of 20-80 mole% of H₂SO₄. Ten different compositions (20, 25, 30, 33, 35, 45, 50, 55, 60, and 80% H₂SO₄) were analyzed. For each composition, the gas analysis was conducted at three current densities: 2.78·10⁻⁴, 5.5·10⁻⁴, and Card 2/4

Study of the Anoda Process in the S/153/60/003/004/015/040/xx Electrolysis of Mixtures of Sulfuric and B020/B054 Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases 1.58·10⁻⁵ a/cm², which corresponded to the lower, central, and upper part of the curve $\varphi_a = f(\log I_a)$. The change in the ethane- (Fig.1), carbon dioxide- (Fig.2), and oxygen content (Fig.3) in dependence on the solution composition was observed. The Kolbe synthesis proceeded in a mixture containing up to 50 mole% of H_2SO_4 at current densities of from 2.78·10⁻⁴ to 1.58·10⁻³ a/cm². Besides the Kolbe synthesis, an intensive oxidation of acetic acid to CO_2 and water is likely to proceed on the anode. At concentrations higher than 50 mole% of $\mathrm{H_2SO_4}$, this reaction proceeds jointly with the release of oxygen. The formation of solvates influences the composition of anode gases. In the diagram $C_{O_2} = f(C_{H_2SO_A})$, the points of solvate formation correspond to the maximum, in the diagram $C_{CO_2} = f(C_{H_2SO_4})$ to the minimum. N. I. Dedusenko (Ref.5) is mentioned. There are 3 figures and 10 references: 3 Soviet, Card 3/4

Study of the Anode Process in the Electrolysis of Mixtures of Sulfuric and S/153/60/003/004/015/040/XX Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases

3 British, 3 German, and 1 Swiss.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

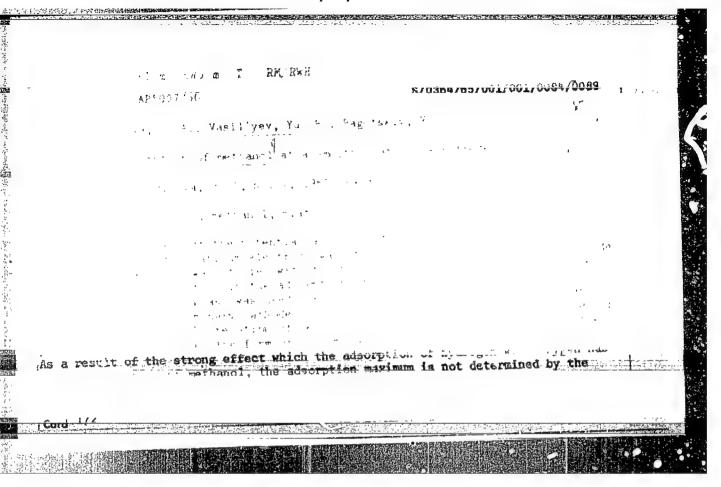
D. I. Mendeleyeva, kafedra tekhnologii elektrokhimicheskikh proizvodstv (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev, Department for the Technology of the Electrochemical Industry)

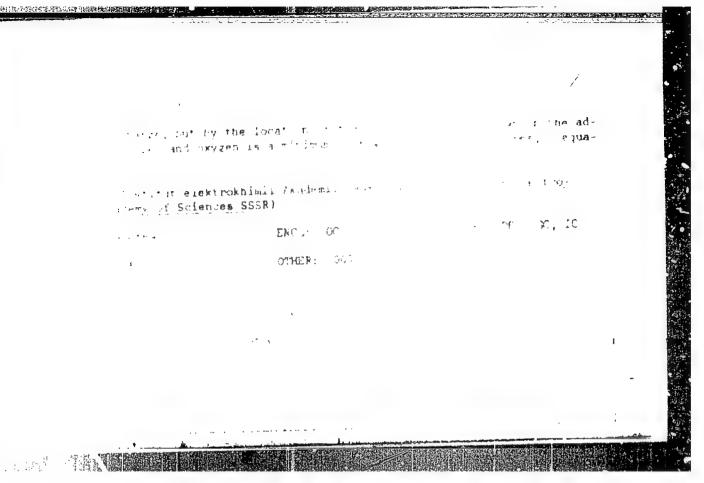
SUBMITTED:

October 20, 1958

Card 4/4

CIA-RDP86-00513R000721930006-3" APPROVED FOR RELEASE: 09/17/2001





KHAZOVA, O.A.; VASIL'YEV, Yu.B.; BAGOTSKIY, V.S.

Effect of the adsorption of foreign ions and molecules on the oxidation rate of organic substances on a platinum electrode.

Elektrokhimiia 1 no.4:439-445 Ap '65. (MIRA 18:6)

1. Institut elektrokhimii AN SSSR.

KHAZOVA, O.A.; VASIL'YEV, Yu.B.; BAGOTSKIY, V.S.

Electrolytic oxidation of organic substances on a platinum electrode. Report 1: General aspect of potentiostatic curves and the nature of inhibition of electrochemical oxidation processes. Izv. AN SSSR. Ser. khim. no.9:1531-1539 '65. (MIRA 18:9)

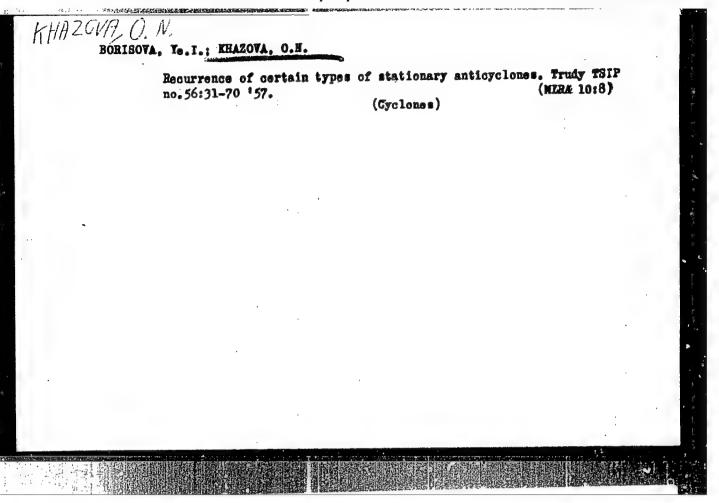
1. Institut elektrokhimii AN SSSR.

KHAZOVA, O.A.; VASILIYEV, Yu.B.; BAGOTSKIY, V.S.

Electrolytic exidation of organic substances on a platinum electrode. Report Nr.2: Kinetics of exidation of alcohols, aldehydes, and carboxylic acids with the estimation of the surface inhomogeneity of the platinum electrode. Izv. AN SSSR. Ser.khim. no.10:1778-1787 165. (MIRA 18:10)

1. Institut elektrokhimii AN SSSR.

ACC NO. EWT (m)/EWP(J)/T DS/JW/DU
ACC NR: AP6019235 (1)/T DS/JW/RM
AUTHOR: Khazova, O. A.; Vasil'yev, Yu. B.; Bagotskiy, V. S. ORG: Institute of Electrochemical
trokhimii Akademii nauk Academy of a
TITLE: The mechanism of
oxidation of man
TITLE: The mechanism of electrolytic oxidation of methanol on a smooth platinum SOURCE: Elektrokhimiya, v. 2, no. 3, 1966, 267-276
TOPIC TAGS: electronic 2, no. 3, 1966, 267-276
acid solution, kinetics, charitantian, polarization
TOPIC TAGS: electrochemistry, oxidation, polarization, methanol, platinum, electrode, steady state. The chemisorption and electrode,
+ nill and polarization and electrolytic out
ABSTRACT: The chemisorption and electrolytic oxidation of methanol, platinum, electrode, steady state polarization experiments, in solutions of 1 N H ₂ SO ₄ , with methanol concentrode), the polarization curves for smooth platinum electrodes obeyed the Tafel equation curves in the speed of adsorption and dehydrogenation of the speed of the concentration of the speed of electrooxidation and dehydrogenation of the speed of the curve
tion with slopes of 0.110-0.125. Above 0.6; v. deviations occurred because of the state speed of electrooxidation. The speed of adsorption and dehydrogenation of methanol over the steady. The speed of electrooxidation deposits of adsorption is given by i = k.cd where
control electronyides and dehidrogeness occurred because
c - volume concentration of methanol and $\theta = 0.5$; above c - 1 M, i reached a maximum. Card 1/2
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KHAZOVA, O. N.

3(7)

PHASE I BOOK EXPLOITATION

507/3031

Moscow. Tsentral'nyy institut prognozov

Voprosy dolgosrochnykh prognozov (Problems in Long-Range Forecasting)
Moscow, Gidrometeoizdat (otd.) 1958. 104 p. (Series: Its: Trudy,
vyp. 73) 1,100 copies printed.

Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed.: (title page): V.M. Kurganskaya; Ed. (inside book): V.I. Tarukhunova; Tech. Ed.: I.M. Zarkh

PURPOSE: This issue of the Institute's Transactions is intended for meteorological and hydrographic specialists working in the field of long-range weather forecasting.

COVERAGE: This collection of articles deals with aspects of extended weather forecasting. Individual articles discuss: synoptic conditions of wind regimes most favorable to shipping along the Northern Sea Route [Soviet Arctic Seas]; synoptic conditions underlying a continuous ice cover in various parts

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00543R900721930006-

of the Sea of Azov; a method for compiling daily schematic 500-mb contour maps (AT₅₀₀) for 3 days by utilizing an equation of the conservation of vortex velocity and temperature regime; a method for the advance computation of the baric field for periods of 24, 48, and 72 hours; the determination of definite relationships for forecasting air temperature for a natural synoptic period. The results of actual tests in a series of investigations in extended forecasting are cited. References accompany each article.

TABLE OF CONTENTS:

Antipova, Ye.G. Synoptic Characteristics of the Wind Regime in the Southern
Part of the Barents and Karskoye Seas During the Navigation Period

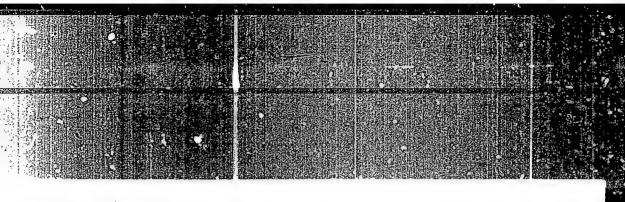
Khesina, B.G. Synoptic Conditions of Freezing in the Sea of Azov

Khazova, O.N., and N.M. Chapygina. Compiling Mean Prognostic 500-mb Contour
Maps for 3 Days

Turketti, Z.L. Forecasting Pressure Fields for 2-3 Days

57

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TURKETTI, Z.L., KHAZOVA, O.N.

Nature and conditions of the formation of mean monthly temperature anomalies in July in the European part of the U.S.S.R. and Western Siberia and their possible prediction. Trudy TSIP no.89:41-73 '60. (Weather forecasting)

AVERBUKH, S. K. BEDRINA, V. S. KHAZOVA, O. N.

Criticising inaccurate 3- to 7-day weather forecasts. Trudy TSIP no.119:82-97 62. (MIRA 16:1)

(Weather forecasting)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721930006-3

Socialist competition of two electric power stations. Energetik 3 no.5:1-3
(MLRA 6:10)
0 '53.

(Electric power stations)

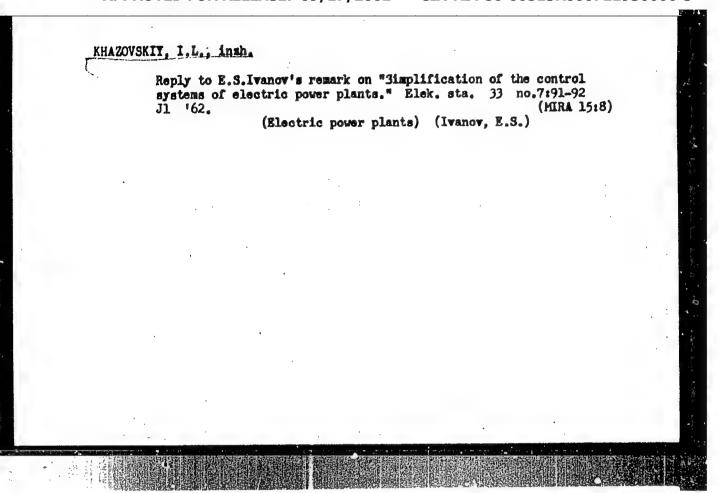
ZHURAVLEV, S.I., inshener; KHAZOVSKIY, L.L., inshener; KOLOTOVCHENKOV, M.H., tekhnik.

Eliminating dust formation in fuel feeding. Energetik 4 no.6: 12-13 Je '56. (MLRA 9:8) (Coal-handling machinery)

KHAZOVSKIY, I.L., inzh.

Thermal electric power plant No.1 in Irkutsk is an enterprise of communist labor. Energetik 9 no.1:34-36 Ja '61. (HIRA 16:7)

(Irkutsk-Electric power plants)



Device for cutting pipes of gas pipelines in operation.

Gaz. prom. 4 no.12:43-44 D 159. (MIRA 13:3)

(Gas pipes)

GUSEV, A.A.; KURNAKOV, K.V.; KOZLOV, Ye.A.; MITROFANOV, I.A.; KHAZRON, G.P.

Determining condensate accumulations in gas pipolines by a radiometric indicator. Gaz. prom. 10 no.8:42-45 '65. (MIRA 18:9)

KHCHEYAN, Kh. Ye., Candidate Tech Sci (diss) -- "Simultaneous production of phthalic acids and chloroform ". Moscow, 1959. 12 pp (Min Higher Educ USSR, Moscow Inst of Fine Chem Tech im M. V. Lomonosov), 150 copies (KL, No 22, 1959, 117)

5(1), 15(8)

504/64-59-1-12/24

AUTHORS:

Kruzhalov, B. D., Khcheyan, Kh. Ye.

TITLE:

Joint Preparation of Phthalic Acids and Chloroform (Sovmestnoye

polucheniye ftalevykh kislot i khloroforma)

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 1, pp 48-54 (USSR)

ABSTRACT:

Besides the authors, also A. M. Sladkov, A. V. Arbatskiy and V. Z. Grishko participated in the first part of the investigations under the direction of the late Professor P. G. Sergeyev. In connection with the increase in production of synthetic fibers by 12-13 times under the new Seven-year Plan, new raw material sources are to be found for the preparation of the important phthalic acids (I). A method is suggested by which diethyl benzene (II) in the first stage is subjected to a liquid-phase oxidation with air besides small quantities of cobalt or manganese salts. The diacetyl benzene (III) obtained reacts in the second stage with a calcium hypochlorite solution and forms calcium phthalates and chloroform. The initial product for the experiments described was a fraction of (II) which was obtained in the benzene alkylation with ethylene at the Gorlovskiy azotnotukovyy zavod (Corlovka Mitrogenous Manure Plant) (Table of the distil-

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507/64-59-1-12/24

Joint Preparation of Phthalic Acids and Chloroform

lation fractions). The isomeric composition of (II) was determined by the infrared absorption on the spectrometer IKS-11. The analysis showed that 31.5% para- and 64-65% meta-diethyl benzene were present. The oxidation of (II) was carried out in a laboratory reactor (Fig 1) which worked on the principle of an air lift with closed circuit and was connected to an experimental plant (Fig 2). A cobalt-oleate catalyst (0.6-0.7% of the quantity of (II)) proved to be most active. To determine optimum conditions, experiments at 120-150 (Table 1, Figs 3, 4) and with different oxidation times (Figs 5, 6) were carried out, and a temperature of 130 at a duration of 8 hours were found to be the optimum values. Under these conditions, also the unoxidized (II) and ethylacetophenone may be oxidized from the reflux with equal efficiency (Tables 2, 3). The composition of the exidation product was computed by the analysis of the functional groups according to data of the distillation (Table 4). The hypochlorination was carried out in a flask with stirring apparatus (Fig 7); the results are given (Table 5). The separation of the phthalic acids was caused by the calcium salts which are variably soluble in water. A scheme for the described exidation of (II)

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Joint Preparation of Phthalic Acids and Chloroform

in 2 stages for industrial use (Fig 8), as well as the corresponding material balance for 1 ton of (I) and 1.1 tons of chloroform, are indicated. There are 2 figures, 5 tables, and 11 references, 1 of which is Soviet.

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